

5      DYNAMIC SOFTWARE CODE INSTRUMENTATION METHOD AND SYSTEM

ABSTRACT OF THE DISCLOSURE

A method and system of monitoring code after being  
10    compiled or assembled is provided. Software code  
instructions, such as a function preamble and/or a data  
manipulation instruction, are identified using debug  
information and then dynamically replaced with an  
instruction that will branch execution to a scratchpad  
15    buffer. A routine is inserted into the scratchpad buffer,  
and includes instruction(s) to generate output to a trace  
buffer. Subsequent instructions in the scratchpad may  
execute the replaced instruction(s) and branch back to the  
address of the program code immediately following the  
20    original address of the replaced instruction.